

Title (en)  
AGROCHEMICALS BASED ON STABILIZED AZULUMIC ACIDS

Publication  
**EP 0003587 B1 19820714 (DE)**

Application  
**EP 79100333 A 19790205**

Priority  
DE 2806097 A 19780214

Abstract (en)  
[origin: ES477703A1] Azulmic acids, stabilized by condensation with carbonyl compounds, said modified azulmic acids containing from 0.5 to 55 percent by weight of ionic groups of the formula < IMAGE > in which R represents hydrogen, ammonium, one equivalent of a protonated or quaternized organic nitrogen base or of a sulphonium cation or one equivalent of a metal cation, and containing from 0.5 to 15 percent by weight of groups formed by decarboxylation reaction of the formula < IMAGE > and acid addition salts and complex compounds of these stabilized azulmic acids, and also mixed products of these stabilized azulmic acids with additives can be used as agrochemicals. The products are particularly useful as fertilizers and as soil improving agents.

IPC 1-7  
**C05C 11/00**; **C09K 17/00**

IPC 8 full level  
**C09K 17/00** (2006.01); **C05C 11/00** (2006.01); **C09K 17/14** (2006.01); **C09K 17/18** (2006.01); **C09K 101/00** (2006.01)

CPC (source: EP US)  
**C05C 11/00** (2013.01 - EP US); **C09K 17/18** (2013.01 - EP US); **Y10S 71/02** (2013.01 - EP US); **Y10S 71/903** (2013.01 - EP US)

Designated contracting state (EPC)  
BE CH DE FR GB IT NL SE

DOCDB simple family (publication)  
**EP 0003587 A1 19790822**; **EP 0003587 B1 19820714**; AU 4413779 A 19790823; BR 7900895 A 19790911; CA 1118223 A 19820216; DE 2806097 A1 19790816; DE 2963319 D1 19820902; DK 59579 A 19790815; ES 477703 A1 19791201; IL 56646 A0 19790531; JP S54117765 A 19790912; PT 69213 A 19790301; US 4251255 A 19810217; US 4334905 A 19820615; ZA 79624 B 19800326

DOCDB simple family (application)  
**EP 79100333 A 19790205**; AU 4413779 A 19790212; BR 7900895 A 19790213; CA 321368 A 19790213; DE 2806097 A 19780214; DE 2963319 T 19790205; DK 59579 A 19790213; ES 477703 A 19790214; IL 5664679 A 19790212; JP 1510879 A 19790214; PT 6921379 A 19790212; US 1154179 A 19790212; US 18926180 A 19800922; ZA 79624 A 19790213